

ATTACHMENT D

SUMMARY OF GROUND WATER MONITORING DATA

(2004)

GLOBAL PETROLEUM CORPORATION

NPDES PERMIT NO. MA0003425

Global Petroleum Corporation
 140 Lee Burbank Highway, Revere, Massachusetts
 NPDES Exclusion 98-086
 Groundwater Treatment System
 Influent/Effluent Testing Results

Date		Jan-04		Feb-03		Mar-03	
Parameter	NPDES Limit	Influent	Effluent	Influent	Effluent	Influent	Effluent
TPH	5 ppm	Note 1	Note 1	2.1	ND	2.3	ND
Methyl Butyl Tert Ether	70 ppb	Note 1	Note 1	46,400 ug/l	1.7 ug/l	77,300 ug/l	ND ug/l
Benzene	5 ppb	Note 1	Note 1	2,300 ug/l	ND ug/l	2,130 ug/l	ND ug/l
Toluene	*	Note 1	Note 1	8,990 ug/l	ND ug/l	3,660 ug/l	ND ug/l
Ethylbenzene	*	Note 1	Note 1	868 ug/l	ND ug/l	474 ug/l	ND ug/l
Xylenes	*	Note 1	Note 1	8,970 ug/l	ND ug/l	4,690 ug/l	ND ug/l
Total BTEX	100 ppb	Note 1	Note 1	21,128 ug/l	ND ug/l	10,954 ug/l	ND ug/l

ND - Not detected

Note 1 - System down. No sample collected.



03/31/04

Technical Report for

Camp Dresser & McKee
Global Petroleum, Revere MA

Accutest Job Number: M38294

Report to:

Camp, Dresser & McKee

WinklerJH@cdm.com

ATTN: Jim Winkler

Total number of pages in report: 15



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Reza Pand
Lab Director

Certifications: MA (M-MA136) CT (PH-0109) NH (250203) RI (00071) ME (MA136) FL (E87579)
NY (11791) NJ (MA926) IL (000589) NAVY USACE

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Sample Summary

Camp Dresser & McKee

Job No: M38294

Global Petroleum, Revere MA

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
M38294-1	03/15/04	10:55 TAN	03/18/04	AQ	Influent	INF-31504
M38294-2	03/15/04	11:00 TAN	03/18/04	AQ	Ground Water	CIN-31504
M38294-3	03/15/04	11:05 TAN	03/18/04	AQ	Ground Water	MID-1-31504
M38294-4	03/15/04	11:10 TAN	03/18/04	AQ	Ground Water	MID-2-31504
M38294-5	03/15/04	11:15 TAN	03/18/04	AQ	Effluent	EFF-31504

Report of Analysis

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Client Sample ID:	INF-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-1	Date Received:	03/18/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	EPA 602		
Project:	Global Petroleum, Revere MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN26141.D	100	03/29/04	AP	n/a	n/a	GMN1006
Run #2	MN26148.D	250	03/29/04	AP	n/a	n/a	GMN1006

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	2130	100	ug/l	
108-88-3	Toluene	3660	100	ug/l	
100-41-4	Ethylbenzene	474	100	ug/l	
1330-20-7	Xylenes (total)	4690	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	77300 ^a	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	77%	76%	61-124%

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	INF-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-1	Date Received:	03/18/04
Matrix:	AQ - Influent	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	2.3	0.61	mg/l	1	03/22/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	CIN-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-2	Date Received:	03/18/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 602		
Project:	Global Petroleum, Revere MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN26142.D	1	03/29/04	AP	n/a	n/a	GMN1006
Run #2	MN26145.D	50	03/29/04	AP	n/a	n/a	GMN1006

Run #	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	2.0	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	7.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6130 ^a	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	79%	73%	61-124%

(a) Result is from Run# 2

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CIN-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-2	Date Received:	03/18/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	03/22/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	MID-1-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-3	Date Received:	03/18/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 602		
Project:	Global Petroleum, Revere MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN26143.D	1	03/29/04	AP	n/a	n/a	GMN1006
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	37.8	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	73%		61-124%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2.3

2

Client Sample ID:	MID-1-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-3	Date Received:	03/18/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	03/22/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	MID-2-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-4	Date Received:	03/18/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 602		
Project:	Global Petroleum, Revere MA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN26146.D	1	03/29/04	AP	n/a	n/a	GMN1006
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	76%		61-124%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MID-2-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-4	Date Received:	03/18/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	03/22/04	BF	EPA 418.1

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	EFF-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-5	Date Received:	03/18/04
Matrix:	AQ - Effluent	Percent Solids:	n/a
Method:	EPA 602		
Project:	Global Petroleum, Revere MA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	MN26147.D	1	03/29/04	AP	n/a	n/a	GMN1006
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics, MTBE

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	74%		61-124%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFF-31504	Date Sampled:	03/15/04
Lab Sample ID:	M38294-5	Date Received:	03/18/04
Matrix:	AQ - Effluent	Percent Solids:	n/a
Project:	Global Petroleum, Revere MA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Petroleum Hydrocarbons	<0.61	0.61	mg/l	1	03/22/04	BF	EPA 418.1

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

495 TECHNOLOGY CENTER WEST • BUILDING ONE
MARLBOROUGH, MA 01752
TEL: 508-481-6200 • FAX: 508-481-7753

ACCUTEST JOB #:

M38294

ACCUTEST QUOTE OF:

[illegible]

3.1

M38294: Chain of Custody

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